

**10 CHANNEL 5 STEREO MIXER****M-10E****Owner's Manual  
Bedienungsanleitung  
Mode d'emploi  
Manuale d'uso  
Manual del usuario**

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (p. 2; p. 4). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

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**IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.**

BLUE: NEUTRAL  
BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

## USING THE UNIT SAFELY

### INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About **⚠ WARNING** and **⚠ CAUTION** Notices

<b>⚠ WARNING</b>	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
<b>⚠ CAUTION</b>	<p>Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.</p> <p>* Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.</p>

About the Symbols

	The  symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The  symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The  symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

### ALWAYS OBSERVE THE FOLLOWING

#### ⚠ WARNING

- Before using this unit, make sure to read the instructions below, and the Owner's Manual.
- Do not open (or modify in any way) the unit or its AC adaptor.
- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.
- Never use or store the unit in places that are:
  - Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
  - Damp (e.g., baths, washrooms, on wet floors); or are
  - Humid; or are
  - Exposed to rain; or are
  - Dusty; or are
  - Subject to high levels of vibration.
- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.



#### ⚠ WARNING

- Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.
- Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!
- This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an audiologist.



## ⚠ WARNING

- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.



- Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:

- The AC adaptor or the power-supply cord has been damaged; or
- If smoke or unusual odor occurs
- Objects have fallen into, or liquid has been spilled onto the unit; or
- The unit has been exposed to rain (or otherwise has become wet); or
- The unit does not appear to operate normally or exhibits a marked change in performance.



- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.



- Protect the unit from strong impact.  
(Do not drop it!)



- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/ampères) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.



- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.



- Batteries must never be recharged, heated, taken apart, or thrown into fire or water.



## ⚠ CAUTION

- The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.



- Always grasp only the output plug or the body of the AC adaptor when plugging into, or unplugging from, this unit or an outlet.



- Any accumulation of dust between the AC adaptor and the power outlet can result in poor insulation and lead to fire. Periodically wipe away such dust with a dry cloth. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time.



- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.



- Never climb on top of, nor place heavy objects on the unit.



- Never handle the AC adaptor body, or its output plugs, with wet hands when plugging into, or unplugging from, an outlet or this unit.



- Before moving the unit, disconnect the AC adaptor and all cords coming from external devices.



- Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet.



- Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.



- If used improperly, batteries may explode or leak and cause damage or injury. In the interest of safety, please read and observe the following precautions (p. 21).



- Remove the batteries whenever the unit is to remain unused for an extended period of time.



- If a battery has leaked, use a soft piece of cloth or paper towel to wipe all remnants of the discharge from the battery compartment. Then install new batteries. To avoid inflammation of the skin, make sure that none of the battery discharge gets onto your hands or skin. Exercise the utmost caution so that none of the discharge gets near your eyes. Immediately rinse the affected area with running water if any of the discharge has entered the eyes.



- Never keep batteries together with metallic objects such as ballpoint pens, necklaces, hairpins, etc.



- Used batteries must be disposed of in compliance with whatever regulations for their safe disposal that may be observed in the region in which you live.



# IMPORTANT NOTES

In addition to the items listed under “USING THE UNIT SAFELY” on pages 2 and 3, please read and observe the following:

## Power Supply: Use of Batteries

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- When installing or replacing batteries, always turn off the power on this unit and disconnect any other devices you may have connected. This way, you can prevent malfunction and/or damage to speakers or other devices.
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

## Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.

## Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

## Additional Precautions

- Use a reasonable amount of care when using the unit’s buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable’s internal elements.
- To avoid disturbing your neighbors, try to keep the unit’s volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.
- Use a cable from Roland to make the connection. If using some other make of connection cable, please note the following precautions.
  - Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this unit. The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable.

# FEATURES

The M-10E is a 10-channel (5 stereo) mixer that features the following functionality.

Designed for the multimedia age, it allows sound from peripherals such as a MIDI sound module or CD player to be mixed for the ideal playback balance. A maximum of five channels (four stereo channels + AUX) of stereo sound can be controlled.

In applications such as video editing, it can be used to edit audio by mixing narration, simultaneous recording, background music, and sound effects.

## 10 in/2 out Configuration

Five stereo channels (10 in's) and 2 outputs (stereo) are provided.

## Dual Power Supply

Conveniently powered using either dry-cell batteries on the market (6F22, S-006P/9V), or an AC adaptor.

## Microphone Setup

Since it is equipped with SENS (sensitivity) knobs, the M-10E can accommodate a broad variety of signals, from microphone to line level.

## Overload Indicators

The L/R OVERLOAD LEDs allow you to set the best signal level for optimum audio performance.

## AUX OUT Jacks

Connection to a recording device (cassette, DAT or open reel deck, for example) can be made through these jacks.

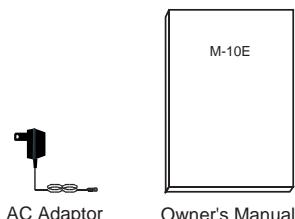
## PHONES Jack

Stereo headphones can be connected to this jack for convenient mix monitoring.

# ACCESSORIES

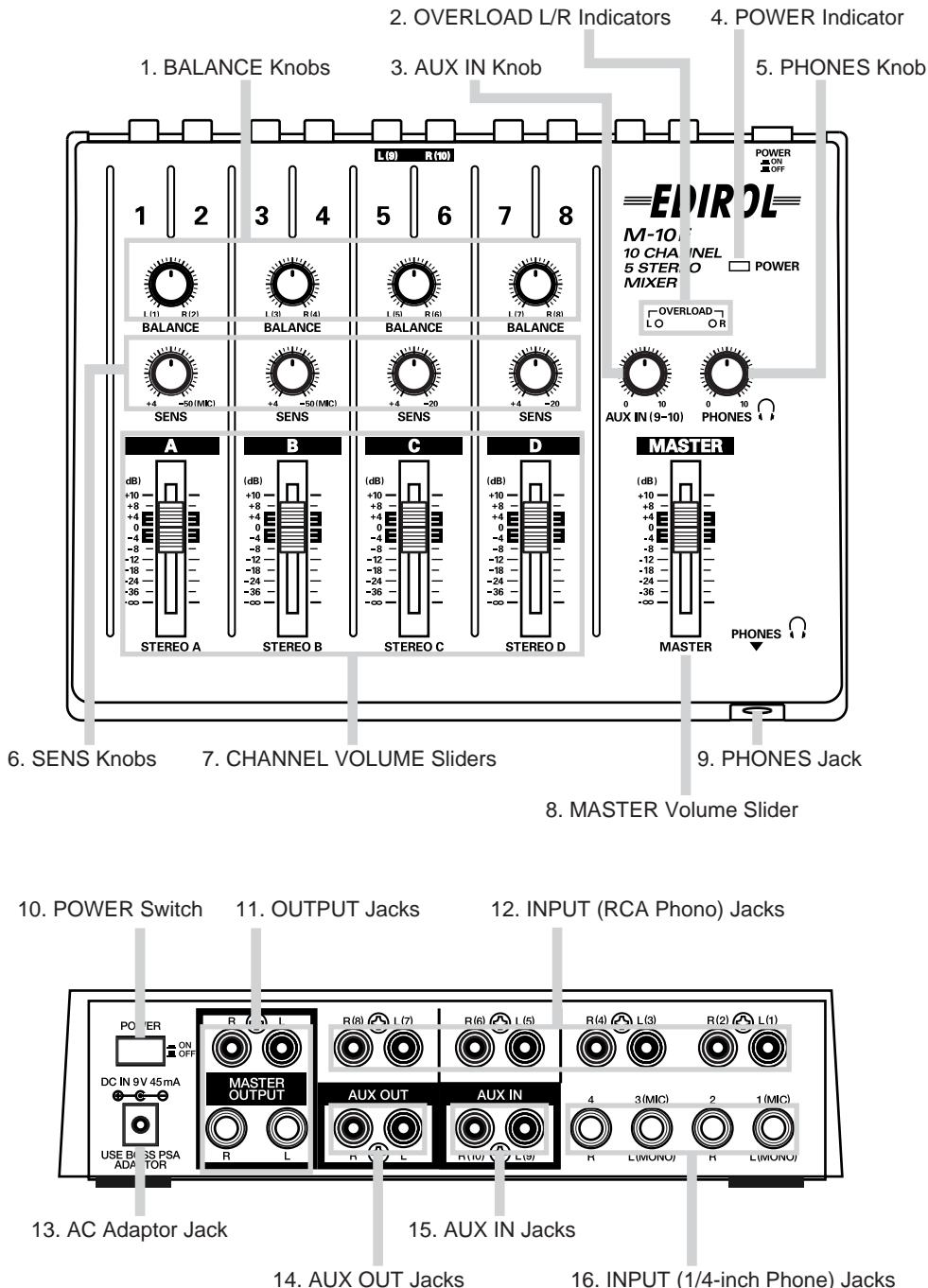
The M-10E package contains the following items.

Before you begin using the mixer, please check that these items are all present.



- AC ADAPTOR BOSS PSA Series
- Owner's Manual

## PANEL DESCRIPTIONS



## 1. BALANCE Knobs

These knobs adjust the stereo input balance for each channel. At the center position, the left and right signals are at the same level. Rotating the knob clockwise or counterclockwise will shift the sound field to the right or left respectively.

## 2. OVERLOAD L/R Indicators

These indicators light when the mixed signal level is too high. If these LEDs light frequently, lower the input sensitivity by rotating the SENS knob of each channel counterclockwise.

- \* *These indicators are not affected by the position of the MASTER volume slider.*
- \* *These indicators light at 6 dB below the clipping level (the point at which distortion becomes audible).*

## 3. AUX IN Knob

Adjusts the input level of the device connected to the AUX IN (Auxiliary Input) jacks.

- \* *The AUX IN knob controls the L/R input signals simultaneously.*

## 4. POWER Indicator

Lights when the M-10E is turned on.

- \* *If you are using a battery and the POWER indicator does not light (or lights dimly), replace the battery.*

## 5. PHONES Knob

Controls the headphone volume.

- \* *The headphone volume is not affected by the position of the MASTER Volume slider.*

## 6. SENS Knobs

Adjust the input sensitivity for each channel. They are used to optimize the signal level to avoid distortion. Rotating a SENS knob clockwise will increase the sensitivity (increase the volume), while rotating it counterclockwise will decrease the sensitivity (decrease the volume). When a microphone is connected to one of the 1/4 inch phone jacks, be sure to rotate the corresponding SENS knob completely clockwise (to the “-50 dB” position).

- \* *Each SENS knob controls the L/R signals in each channel simultaneously.*

## 7. Channel VOLUME Sliders

These sliders provide volume control for each channel. Set these sliders relative to one another to achieve the best audio mix. (The marked position (“0”) of each channel indicates the optimum level.)

- \* *Each VOLUME slider controls the L/R signals in each channel simultaneously.*

## 8. MASTER Volume Slider

Adjusts the overall output of the M-10E.

- \* *The MASTER slider does not affect the output level of the AUX OUT jacks or the PHONES jack.*

## 9. PHONES Jack (Stereo Mini Type)

Connect stereo headphones to this jack.

## 10. POWER Switch

Switches the unit on and off.

## 11. OUTPUT Jacks (RCA Phono Jacks/1/4" Phone Jacks)

These jacks provide output of the final mixed signals. They can be connected to a PA system, or to the inputs on another mixer.

## 12. Input Jacks (RCA Phono Jacks)

Devices (computer music or audio equipment, for example) with RCA phono plugs should be connected to these inputs. (To connect a monaural device, use both the L/R inputs (when possible), or use one of the standard 1/4 inch phone jacks.)

## 13. AC Adaptor Jack

Connect an AC adaptor (PSA Series) to this jack. (Be sure to use the adaptor specified for your country.)

- \* *When an AC adaptor is connected, the batteries in the unit are not used.*
- \* *If you are not going to use the unit on batteries for a long period of time, remove them from the unit.*

## 14. AUX OUT Jacks (RCA Phono Jacks)

These jacks are convenient for recording direct to a DAT, cassette, or open reel deck (for example).

(Convenient further still because the output level is not affected by the MASTER Volume slider.)

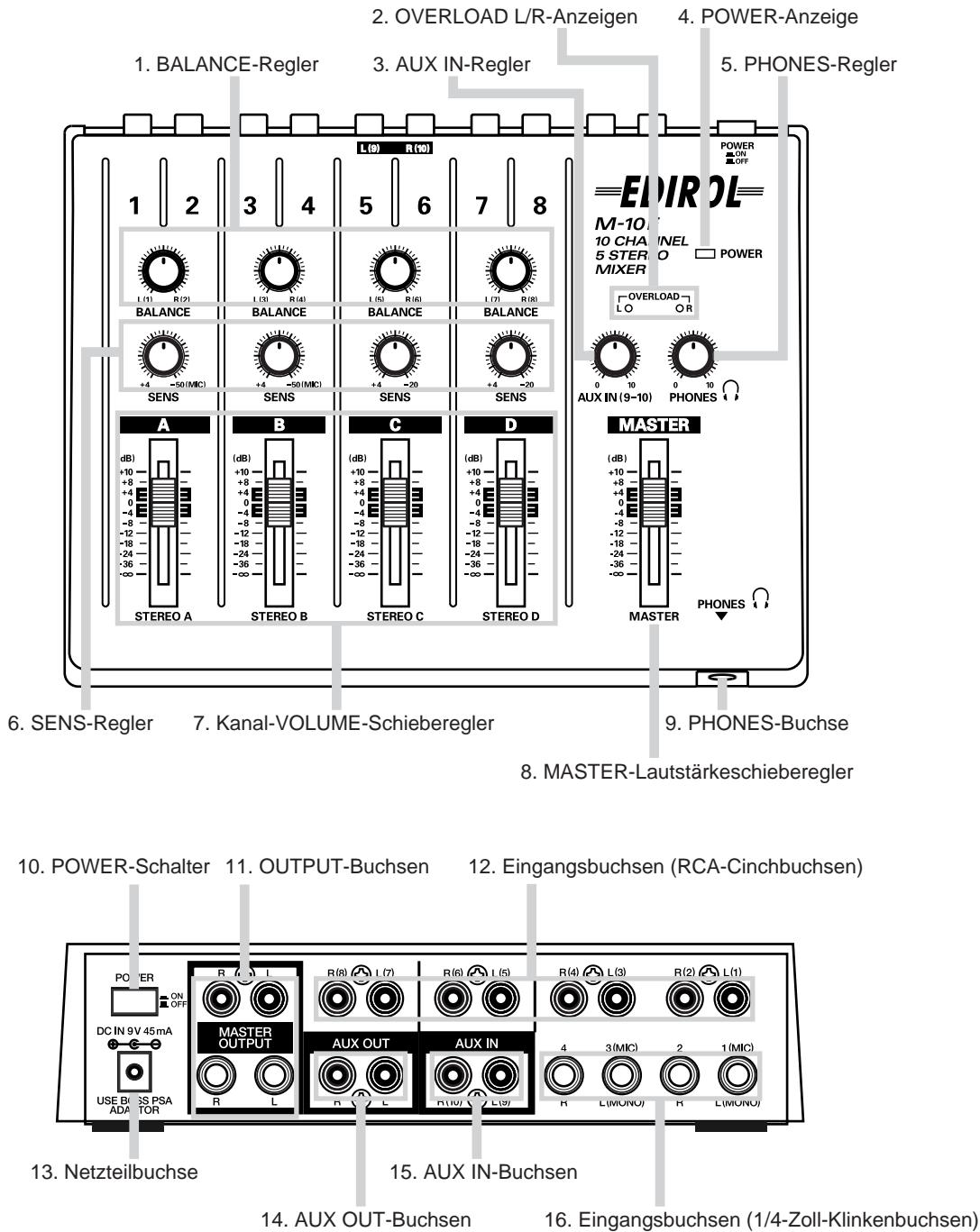
## 15. AUX IN Jacks (RCA Phono Jacks)

These input jacks are ideal for connecting devices that do not require L/R balance adjustment (audio equipment, for example).

## 16. Input Jacks (1/4" Phone Jacks)

Devices (electronic instruments or mics, for example) with 1/4 inch phone plugs should be connected to these inputs. If you are connecting a monaural device such as a microphone, connect it to L (MONO).

# Bedienfeldbeschreibung (Deutsch)



## 1. BALANCE-Regler

Diese Regler stellen die Stereo-Eingangsbalance für jeden Kanal ein. In der Mittenstellung sind die linken und rechten Signale gleich. Durch Drehen des Reglers im Uhrzeigersinn oder gegen den Uhrzeigersinn wird das Klangfeld nach links oder rechts verschoben.

## 2. OVERLOAD L/R-Anzeigen

Diese Anzeigen leuchten auf, wenn der gemischte Signalpegel zu hoch ist. Wenn diese LEDs häufig aufleuchten, senken Sie die Eingangsempfindlichkeit durch Drehen des SENS-Reglers jedes Kanals gegen den Uhrzeigersinn.

- \* *Diese Anzeigen werden nicht von der Position des MASTER-Lautstärkeschiebereglers beeinflusst.*
- \* *Diese Anzeigen leuchten bei 6 dB unter dem Clipping-Pegel (der Stelle, bei der Verzerrung hörbar wird) auf.*

## 3. AUX IN-Regler

Stellt den Eingangspegel des Geräts ein, das an die Eingangsbuchse AUX IN angeschlossen ist.

- \* *Der AUX IN-Regler steuert die L/R-Eingangssignale simultan.*

## 4. POWER-Anzeige

Leuchtet auf, wenn das M-10E eingeschaltet wird.

- \* *Wenn Sie eine Batterie verwenden und die POWER-Anzeige nicht aufleuchtet (oder nur schwach leuchtet), ersetzen Sie die Batterie.*

## 5. PHONES-Regler

Steuert die Kopfhörer-Lautstärke.

- \* *Die Kopfhörer-Lautstärke wird nicht von der Position des MASTER-Lautstärkeschiebereglers beeinflusst.*

## 6. SENS-Regler

Regelt die Eingangsempfindlichkeit für jeden Kanal. Sie dienen zur Optimierung des Signalpegels, um Verzerrung zu vermeiden.

Durch Drehen eines SENS-Reglers im Uhrzeigersinn wird die Empfindlichkeit erhöht (die Lautstärke gesteigert), während durch Drehen gegen den Uhrzeigersinn die Empfindlichkeit gesenkt (die Lautstärke verringert) wird.

Wenn ein Mikrofon an eine der 1/4-Zoll-Klinkenbuchsen angeschlossen ist, drehen Sie den entsprechenden SENS-Regler vollständig im Uhrzeigersinn (zur Stellung "-50 dB").

- \* *Jeder SENS-Regler steuert die L/R-Signale in jedem Kanal simultan.*

## 7. Kanal-VOLUME-Schiebereglер

Diese Schieberegler erlauben Lautstärkeregelung für jeden Kanal. Stellen Sie diese Schieberegler relativ zueinander ein, um die beste Audio-Mischung zu erzielen. (Die markierte Position ("0") jedes Kanals zeigt den optimalen Pegel an.)

- \* *Jeder VOLUME-Schieberegler steuert die L/R-Signale in jedem Kanal simultan.*

## 8. MASTER-Lautstärkeschiebereglер

Stellt die Gesamtlautstärke des M-10E ein.

- \* *Der MASTER-Schieberegler beeinflusst nicht den Ausgangspegel der Buchsen AUX OUT oder der Buchse PHONES.*

## 9. PHONES-Buchse (Stereo-Minibuchse)

Schließen Sie die Stereo-Kopfhörer an diese Buchse an.

## 10. POWER-Schalter

Schaltet das Gerät ein und aus.

## 11. OUTPUT-Buchsen (RCA-Cinchbuchsen/1/4-Zoll Klinkenbuchsen)

Diese Buchsen bieten den Ausgang der endgültig abgemischten Signale.

Sie können an ein PA-System angeschlossen werden, oder an die Eingänge eines anderen Mischpults.

## 12. Eingangsbuchsen (RCA-Cinchbuchsen)

Geräte (z.B. Computermusik- oder Audio-Geräte) mit RCA-Cinchsteckern müssen direkt an diese Eingänge angeschlossen werden. (Zum Anschließen eines Mono-Geräts verwenden Sie beide L/R-Eingänge (wenn möglich), oder verwenden Sie einen der standardmäßigen 1/4-Zoll-Klinkenbuchsen.)

## 13. Netzteilbuchse

Schließen Sie ein Netzteil (PSA-Serie) an diese Buchse an. (Stellen Sie sicher, dass das für Ihr Land vorgeschriebene Netzteil verwendet wird.)

- \* *Wenn ein Netzteil angeschlossen wird, werden die Batterien im Gerät nicht verwendet.*
- \* *Wenn Sie das Gerät längere Zeit nicht über Batterien betreiben wollen, nehmen Sie diese aus dem Gerät.*

## 14. AUX OUT-Buchsen (RCA-Cinchbuchsen)

Diese Buchsen sind praktisch zur direkten Aufnahme auf DAT-, Kassetten oder Tonbanddeck (zum Beispiel). (Und noch praktischer, weil der Ausgangspegel nicht durch die Einstellung des MASTER-Lautstärkeschiebereglers beeinflusst wird.)

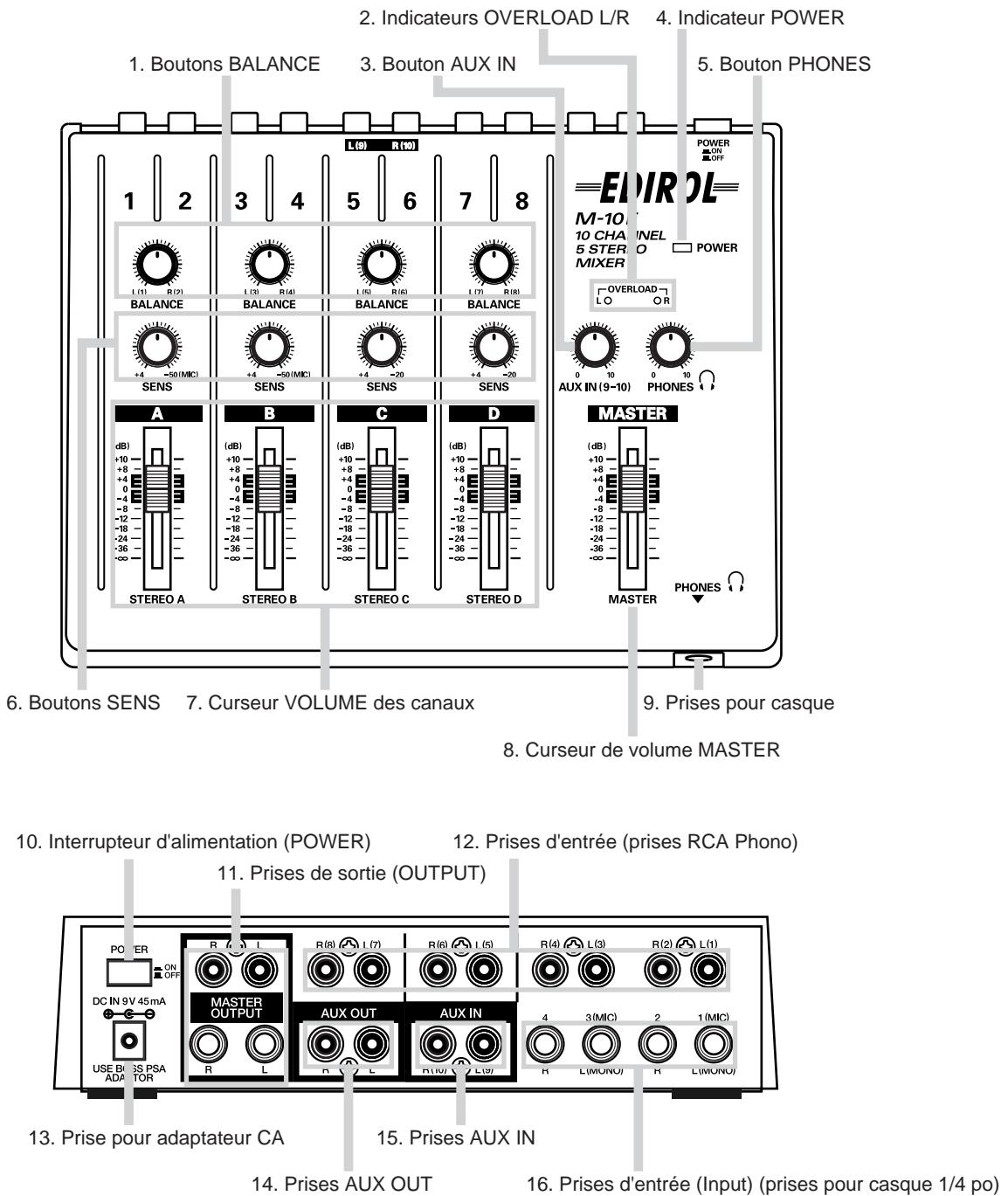
## 15. AUX IN-Buchsen (RCA-Cinchbuchsen)

Diese Eingangsbuchsen sind ideal z.B. zum Anschließen von Geräten, die nicht L/R-Balance-Einstellung erfordern (z.B. Audiogeräte).

## 16. Eingangsbuchsen (1/4-Zoll-Klinkenbuchsen)

Geräte (z.B. elektronische Musikinstrumente oder Mikrofone) mit 1/4-Zoll-Klinkensteckern sollten direkt an diese Eingänge angeschlossen werden. Wenn Sie ein Mono-Gerät wie ein Mikrofon anschließen, schließen Sie dieses an L (MONO) an.

# Description (Français)



## 1. Boutons BALANCE (d'équilibrage)

Ces boutons ajustent l'entrée stéréo pour chaque canal. Lorsqu'ils sont au centre, les signaux gauche et droit sont au même niveau. Tourner les boutons dans le sens des aiguilles d'une montre ou dans le sens contraire fait passer le champ sonore à gauche ou à droite.

## 2. Indicateurs OVERLOAD L/R (indicateurs de surcharge g/d)

Ces indicateurs s'allument lorsque le niveau du signal mixte est trop élevé. Si ces voyants s'allument fréquemment, abaisser la sensibilité d'entrée en tournant le bouton SENS de chaque canal dans le sens contraire des aiguilles d'une montre.

- \* Ces indicateurs ne sont pas affectés par la position du curseur de volume principal (MASTER).
- \* Ces indicateurs s'allument à 6 dB sous le niveau d'écrêtage (point où la distorsion devient audible).

## 3. Bouton AUX IN

Ajuste le niveau d'entrée de l'appareil connecté aux prises pour casque AUX IN (entrée auxiliaire).

- \* Le bouton AUX IN contrôle simultanément les signaux d'entrée g/d.

## 4. Indicateur POWER (alimentation)

S'allume lorsque le M-10E est mis sous tension.

- \* Si une pile est utilisée et que l'indicateur POWER ne s'allume pas (ou s'il est faible), il faut remplacer la pile.

## 5. Bouton PHONES (casque d'écoute)

Contrôle le volume du casque d'écoute.

- \* Le volume du casque d'écoute n'est pas affecté par la position du curseur de volume principal (MASTER).

## 6. Boutons SENS (sensibilité)

Ajustent la sensibilité de chaque canal. Ils servent à optimiser le niveau du signal pour éviter la distorsion. Tourner un bouton SENS dans le sens des aiguilles d'une montre augmente la sensibilité (augmente le volume), et le tourner dans le sens contraire décroît la sensibilité (diminue le volume). Si un microphone est connecté à l'une des prises pour écouteurs de 1/4 po, s'assurer de tourner complètement le bouton SENS correspondant dans le sens des aiguilles d'une montre (jusqu'à la position « -50 dB »).

- \* Chaque bouton SENS contrôle simultanément les signaux L/R (g/d) de chaque canal.

## 7. Curseur VOLUME des canaux

Ces curseurs permettent de contrôler le volume de chaque canal. Les positionner de manière semblable l'un par rapport à l'autre pour obtenir le meilleur mélange audio. (La position marquée (« 0 ») pour chaque canal indique le niveau optimal.)

- \* Chaque curseur VOLUME contrôle simultanément les signaux L/R (g/d) de chaque canal.

## 8. Curseur de volume MASTER (principal)

Ajuste l'ensemble de la sortie du M-10E.

- \* Le curseur MASTER n'affecte pas le niveau de sortie des prises AUX OUT ou des prises pour casque (PHONES).

## 9. Prises pour casque (type mini stéréo)

Connecter le casque d'écoute stéréophonique à cette prise.

## 10. Interrupteur d'alimentation (POWER)

Allume ou éteint l'appareil.

## 11. Prises de sortie (OUTPUT) (prises RCA Phono / prises pour casque 1/4 po)

Ces prises permettent la sortie des signaux mélangés finaux.

Elles peuvent être connectées à un système de sonorisation ou aux entrées d'un autre mélangeur.

## 12. Prises d'entrée (prises RCA Phono)

Connecter à ces prises les appareils (p. ex., informatique musicale, équipement audio) ayant des fiches RCA phono. (Pour connecter un appareil monaural, utiliser les deux entrées, c.-à-d. les entrées L/R (g/d) si possible; sinon, utiliser l'une des prises pour casque standard de 1/4 po).

## 13. Prise pour adaptateur CA (AC adaptator)

Connecter un adaptateur CA (PSA Série) à cette prise. (S'assurer d'utiliser l'adaptateur spécifié pour le pays où l'appareil est utilisé.)

- \* Si un adaptateur CA est connecté, les piles ne sont pas utilisées.
- \* Retirer les piles de l'appareil s'il ne doit pas être utilisé pendant une longue période.

## 14. Prises AUX OUT (prises RCA Phono)

Ces prises sont pratiques pour enregistrer directement sur une bande audionumérique, une cassette ou une enregistreuse à ruban (par exemple).

(Elles sont encore plus pratiques parce que le niveau de sortie n'est pas affecté par le curseur de volume MASTER.

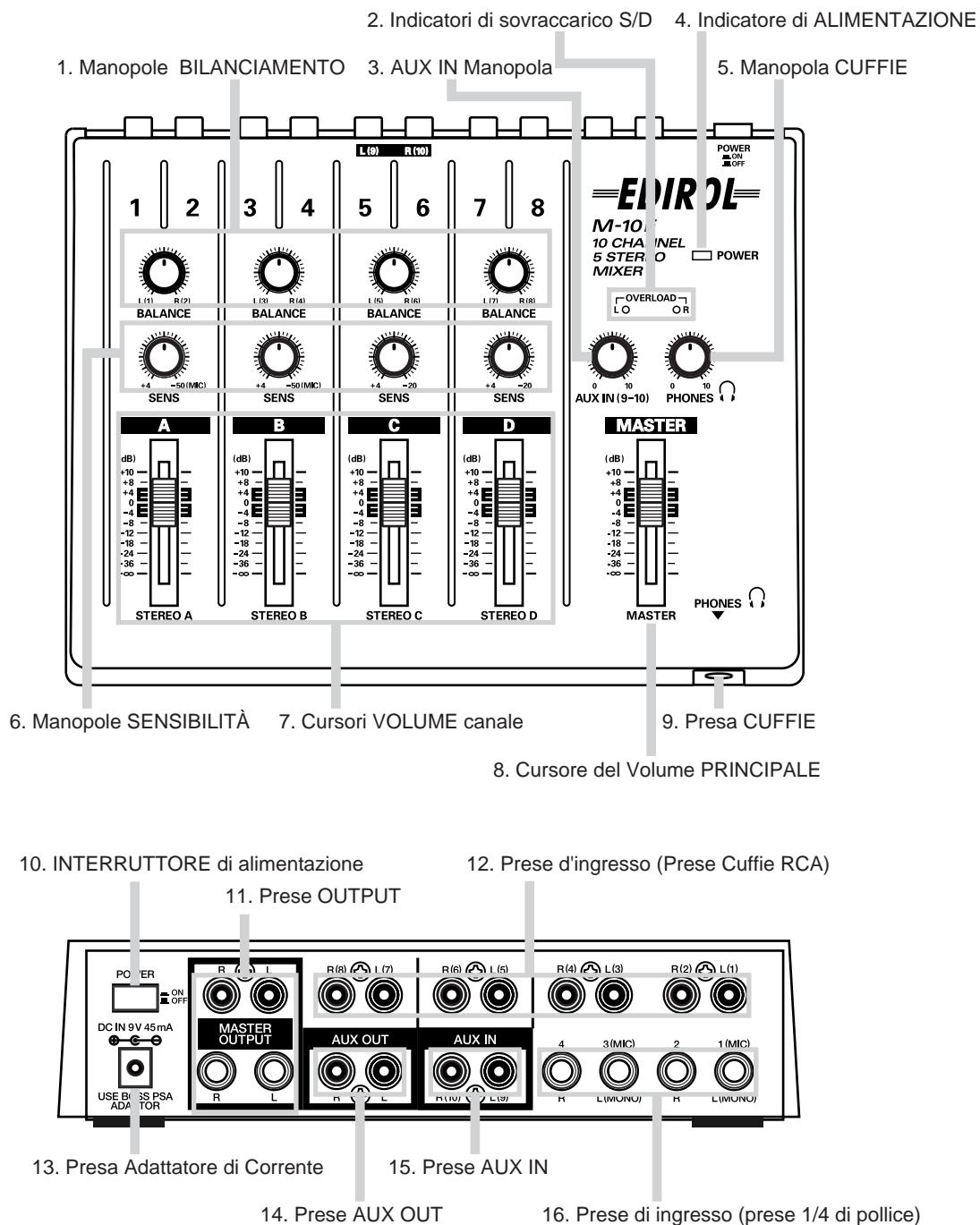
## 15. Prises AUX IN (prises RCA Phono)

Ces prises sont idéales pour connecter des appareils qui n'ont pas besoin d'ajustement d'équilibre L/R (g/d) (par exemple, de l'équipement audio).

## 16. Prises d'entrée (Input) (prises pour casque 1/4 po)

Connecter les appareils (par exemple des instruments électroniques ou microphones) munis de prises pour casque de 1/4 po. Connecter un appareil monaural, par exemple un microphone, à la prise L (MONO).

# Descrizione del pannello (Italiano)



## 1. Manopole BILANCIAMENTO

Queste manopole regolano il bilanciamento in ingresso dello stereo per ogni canale. Nella posizione centrale, i segnali di sinistra e destra sono allo stesso livello.

Ruotando la manopola in senso orario o antiorario muoverà il campo sonoro a destra o sinistra rispettivamente.

## 2. Indicatori di sovraccarico S/D

Questi indicatori si accendono quando il livello del segnale misto è troppo alto. Se questi LED si accendono frequentemente, diminuire la sensibilità d'ingresso ruotando la manopola SENS di ogni canale in senso antiorario.

- \* *Questi indicatori non sono influenzati dalla posizione del cursore del volume PRINCIPALE.*
- \* *Questi indicatori si accendono a 6 decibel sotto il livello di distorsione (il punto in cui la distorsione diventa udibile).*

## 3. AUX IN Manopola

Regola il livello d'ingresso del dispositivo collegato alle prese AUX IN (Ingresso Ausiliario).

- \* *La manopola AUX IN controlla simultaneamente i segnali d'ingresso S/D.*

## 4. Indicatore di ALIMENTAZIONE

Si illumina quando M-10E è acceso.

- \* *Se state utilizzando una batteria e l'indicatore di alimentazione non si accende (o si accende debolmente), sostituire la batteria.*

## 5. Manopola CUFFIE

Controlla il volume delle cuffie.

- \* *Il volume delle cuffie non è influenzato dalla posizione del cursore del volume PRINCIPALE.*

## 6. Manopole SENSIBILITÀ

Regola la sensibilità d'ingresso di ogni canale. Vengono utilizzati per ottimizzare il livello del segnale per evitare la distorsione.

Ruotando una manopola di SENSIBILITÀ in senso orario aumenterà la sensibilità (aumenta il volume), mentre ruotandolo in senso antiorario diminuirà la sensibilità (diminuisce il volume). Quando un microfono è collegato a una delle prese delle cuffie da 1/4 pollici, assicurarsi di ruotare la manopola di SENSIBILITÀ corrispondente in senso orario (alla posizione “-50 db”).

- \* *Ogni manopola di sensibilità controlla simultaneamente i segnali S/D in ogni canale.*

## 7. Cursori VOLUME canale

Questi indicatori controllano il volume per ogni canale. Per ottenere la migliore miscela audio regolare questi cursori. (La posizione indicata (“0”) di ogni canale indica il livello ottimale).

- \* *Ogni cursore del VOLUME controlla simultaneamente i segnali S/D in ogni canale.*

## 8. Cursore del Volume PRINCIPALE

Regola l'output generale del M-10E.

- \* *Il cursore PRINCIPALE non influisce sul livello di output delle prese AUX OUT o la presa delle CUFFIE.*

## 9. Presa CUFFIE (Stereo Tipo Mini)

Collegare le cuffie dello stereo a questa presa.

## 10. INTERRUTTORE di alimentazione

Accende e spegne l'unità.

## 11. Prese OUTPUT (RCA Prese Cuffie/ 1/4 di pollice Prese Cuffie)

Queste prese forniscono l'output per i segnali misti finali. Possono essere collegati al sistema PA, o agli ingressi su un altro mixer.

## 12. Prese d'ingresso (Prese Cuffie RCA)

I dispositivi (apparecchiatura per musica o audio computer) con spine cuffie RCA dovrebbero essere collegati a questi ingressi. (Per collegare un dispositivo monoauricolare, utilizzare entrambe gli ingressi S/D (quando possibile), o utilizzare una delle prese standard per cuffie da 1/4 pollici).

## 13. Presa Adattatore di Corrente

Collega un adattatore di corrente (Serie PSA) a questa presa. (Assicurarsi di utilizzare l'adattatore indicato per il vostro paese.)

- \* *Quando un adattatore di corrente è collegato, non vengono utilizzate le batterie nell'unità.*
- \* *Se non alimentare l'unità a batterie per un lungo periodo di tempo, toglietele dall'unità.*

## 14. Prese AUX OUT (Prese Cuffie RCA)

Queste prese sono convenienti per la registrazione diretta su una cassetta, o registratore a nastro aperto DAT (per esempio).

(Conveniente anche perché il livello di output non è influenzato dal cursore del Volume PRINCIPALE).

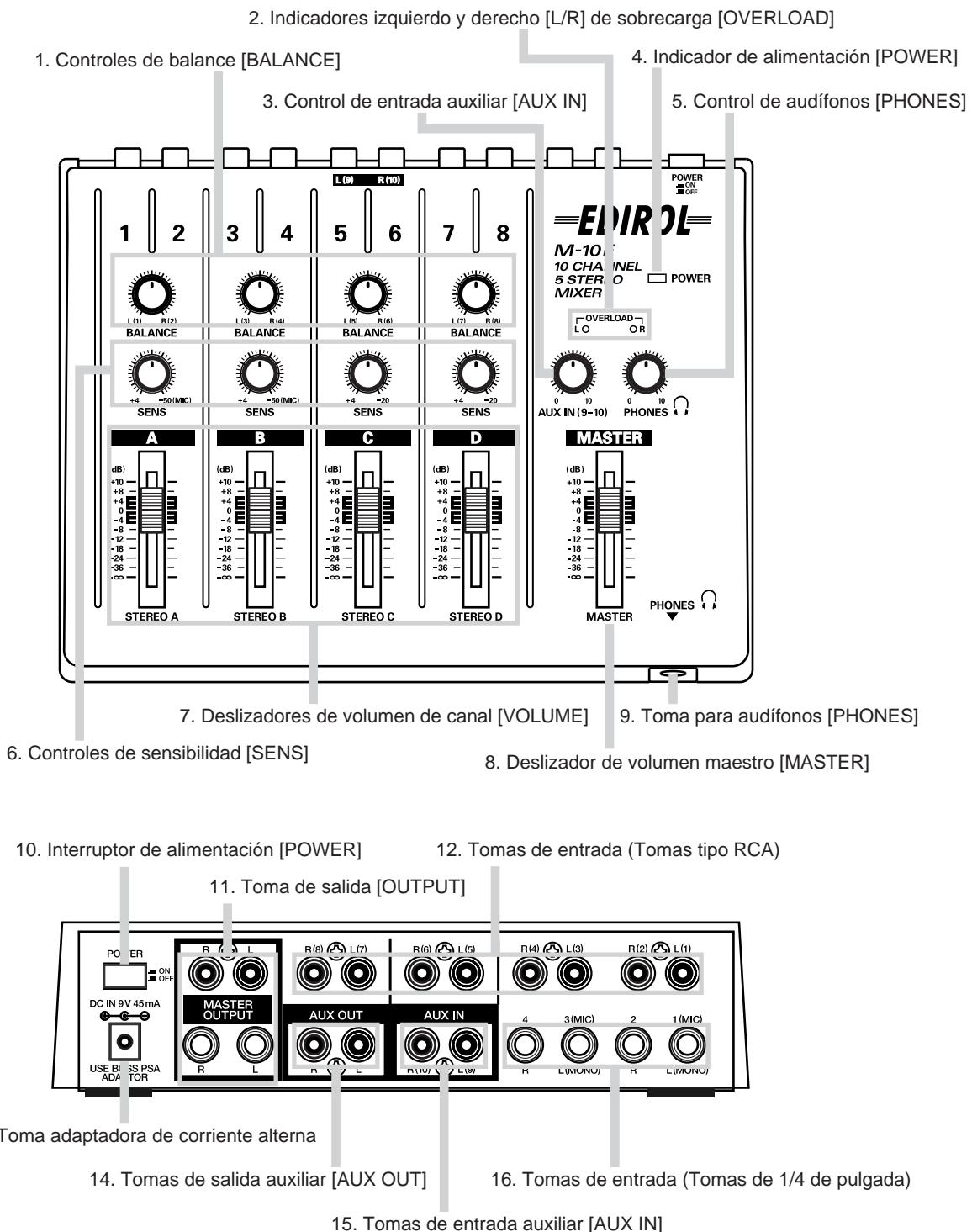
## 15. Prese AUX IN (Prese Cuffie RCA)

Queste prese di ingresso sono ideali per collegare dispositivi che non richiedono la regolazione del bilanciamento S/D (apparecchiatura audio, per esempio).

## 16. Prese di ingresso (prese 1/4 di pollice)

I dispositivi (strumenti elettronici o microfoni, per esempio) con spine per cuffie di 1/4 di pollici dovrebbero essere collegati a questi ingressi. Se state collegando un dispositivo monoauricolare quale un microfono, collegatelo a S (MONO).

# Descripción del panel (Español)



## 1. Controles de balance [BALANCE]

Estos controles ajustan el balance de entrada en estéreo para cada canal. En la posición central, las señales derecha e izquierda se encuentran al mismo nivel. Hacer girar el control a la derecha o a la izquierda cambiará el campo sonoro a la derecha o a la izquierda respectivamente.

## 2. Indicadores izquierdo y derecho [L/R] de sobrecarga [OVERLOAD]

Estos indicadores se iluminan cuando el nivel de la señal mezclada es demasiado alto. Si estos LED se iluminan con frecuencia, reduzca la sensibilidad de entrada al hacer girar a la izquierda el control de sensibilidad [SENS] de cada canal.

- \* *Estos indicadores no se ven afectados por la posición del deslizador de volumen maestro [MASTER].*
- \* *Estos indicadores se iluminan a 6 dB por debajo del nivel de corte de picos (el punto en el cual la distorsión se vuelve audible).*

## 3. Control de entrada auxiliar [AUX IN]

Ajusta el nivel de entrada del dispositivo conectado a las tomas de entrada auxiliar [AUX IN].

- \* *El control de entrada auxiliar [AUX IN] controla las señales de entrada izquierda y derecha [L/R] simultáneamente.*

## 4. Indicador de alimentación [POWER].

Se ilumina cuando se enciende el M-10E.

- \* *Si usa una batería y el indicador de alimentación [POWER] no se ilumina (o lo hace débilmente), reemplace la batería.*

## 5. Control de audífonos [PHONES]

Controla el volumen de los audífonos.

- \* *El volumen de los audífonos no se ve afectado por la posición del deslizador de volumen maestro [MASTER].*

## 6. Controles de sensibilidad [SENS]

Ajusta la sensibilidad de entrada para cada canal. Se usan para optimizar el nivel de la señal y evitar la distorsión. Hacer girar el control de sensibilidad [SENS] a la derecha aumentará la sensibilidad (aumentará el volumen), mientras que hacerlo girar a la izquierda disminuirá la sensibilidad (disminuirá el volumen). Al conectar un micrófono a una de las tomas de 1/4 de pulgada, asegúrese de hacer que el control de sensibilidad [SENS] gire por completo a la derecha (a la posición “-50 dB”).

- \* *Cada control de sensibilidad [SENS] controla las señales izquierda y derecha [L/R] en cada canal simultáneamente.*

## 7. Deslizadores de volumen de canal

### [VOLUME]

Estos deslizadores proporcionan control de volumen para cada canal. Ajuste la posición relativa de ambos deslizadores para lograr la mejor mezcla de audio. (La posición marcada (“0”) de cada canal indica el nivel óptimo.)

- \* *Cada deslizador de volumen [VOLUMEN] controla las señales izquierda y derecha [L/R] en cada canal simultáneamente.*

## 8. Deslizador de volumen maestro [MASTER]

Ajusta la salida global del M-10E.

- \* *El deslizador maestro [MASTER] no afecta el nivel de salida de las tomas de salida auxiliar [AUX OUT] o de la toma para audífonos [PHONES].*

## 9. Toma para audífonos [PHONES] (tipo estéreo mini)

Conecte los audífonos estéreo a esta toma.

## 10. Interruptor de alimentación [POWER]

Enciende y apaga la unidad.

## 11. Toma de salida [OUTPUT] (Tomas tipo RCA / Tomas de 1/4 ”)

Estas tomas proporcionan salida para las señales finales mezcladas.

Se pueden conectar a un sistema de megafonía o a las entradas de otro mezclador.

## 12. Tomas de entrada (Tomas tipo RCA)

Los dispositivos (música de ordenador o equipo de audio, por ejemplo) con enchufes RCA se deberán conectar a estas entradas. (Para conectar un dispositivo monaural, use ambas entradas izquierda y derecha [L/R] (cuando sea posible), o use una de las tomas estándar de 1/4 de pulgada.)

## 13. Toma adaptadora de corriente alterna

Conecte un adaptador de corriente alterna (serie PSA) a esta toma. (Asegúrese de usar el adaptador que se especifica para su país.)

- \* *Cuando se conecta un adaptador de corriente alterna, las baterías en la unidad no se usan.*
- \* *Si no va a usar la unidad con baterías durante un periodo largo, sáquelas de la unidad.*

## 14. Tomas de salida auxiliar [AUX OUT] (tomas tipo RCA)

Estas tomas son convenientes para grabación directa en DAT, casete o unidad de carrete abierto (por ejemplo). (Esto es aún más conveniente porque el nivel de salida no se ve afectado por el deslizador de volumen maestro [MASTER].)

## 15. Tomas de entrada auxiliar [AUX IN] (tomas tipo RCA)

Estas tomas de entrada son ideales para conectar dispositivos que no requieren ajuste de balance izquierdo y derecho [L/R] (equipo de audio, por ejemplo).

## 16. Tomas de entrada (Tomas de 1/4 de pulgada)

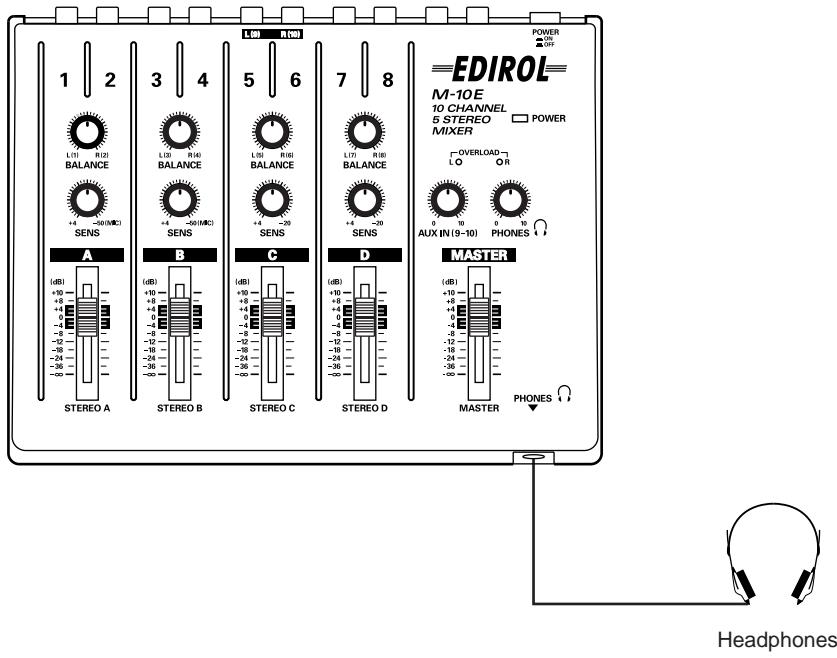
Los dispositivos (instrumentos electrónicos o micrófonos, por ejemplo) con enchufes de 1/4 de pulgada se deberán conectar a estas entradas. Si conecta un dispositivo monaural, como un micrófono, conéctelo a la toma izquierda [L] (MONO).

# CONNECTIONS

- \* To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

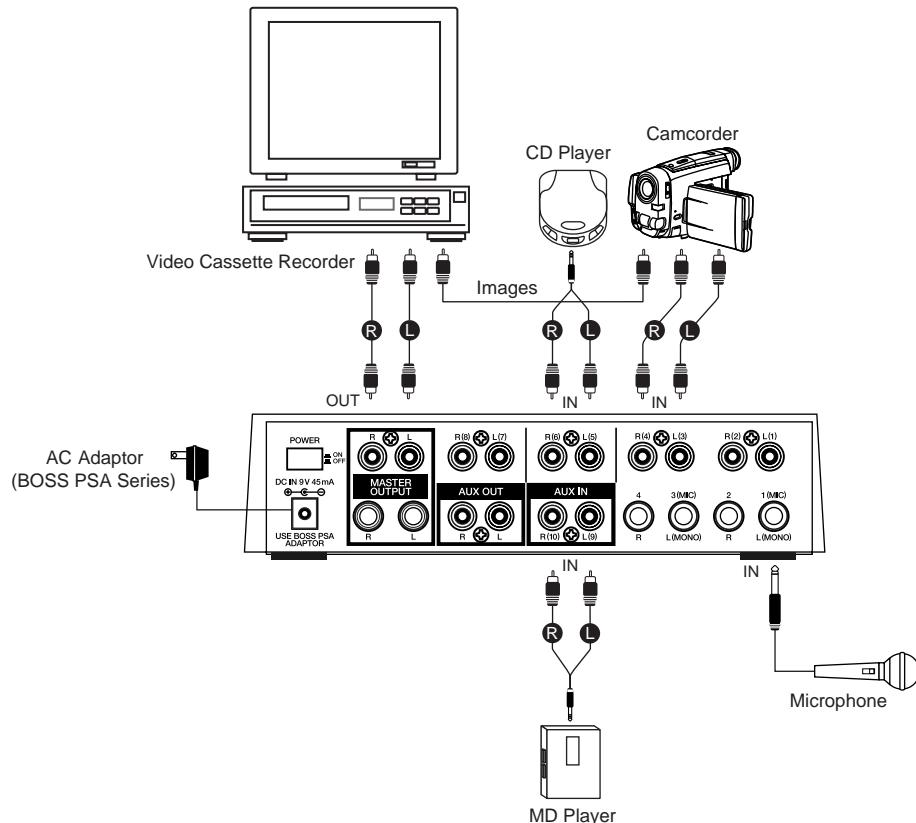
## Connecting Headphones

Connect the headphones to the PHONES jack.



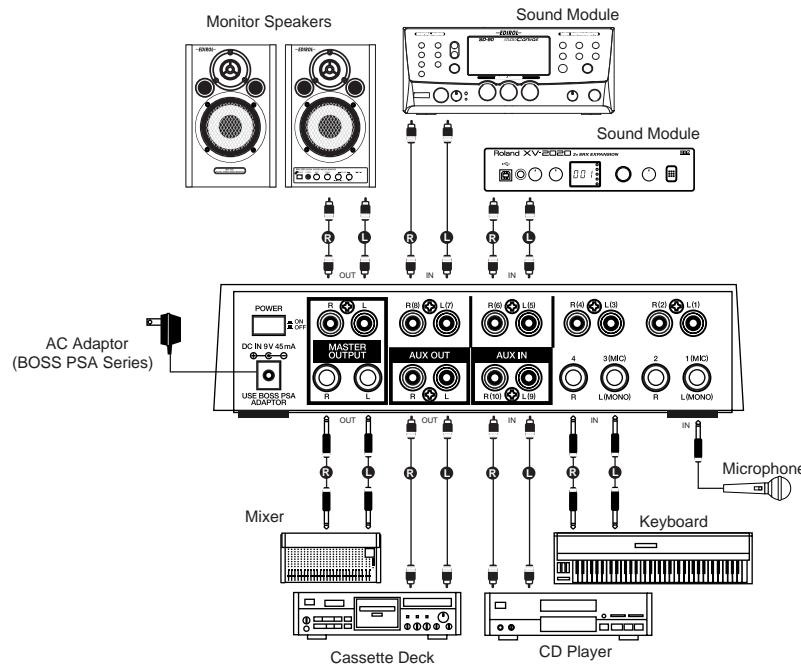
## Example connections for editing audio for video

Here is an example of video post-recording in which you mix sounds from a variety of audio devices.



- \* Use a monaural mic, and connect the mic to channel 1 (MIC) or 3 (MIC).
- \* “Post recording” refers to the process of recording audio material such as music, sound effects, and narration for a previously-recorded video.
- \* If there are batteries (6F22, S-006P/9V) in the unit while an AC adaptor is being used, normal operation will continue should the line voltage be interrupted (power blackout or power cord disconnection).
- \* Howling could be produced depending on the location of microphones relative to speakers. This can be remedied by:
  1. Changing the orientation of the microphone(s).
  2. Relocating the microphone(s) at a greater distance from speakers.
  3. Lowering volume levels.

# Example connections for mixing or switching between desktop media production sources or electronic musical instruments



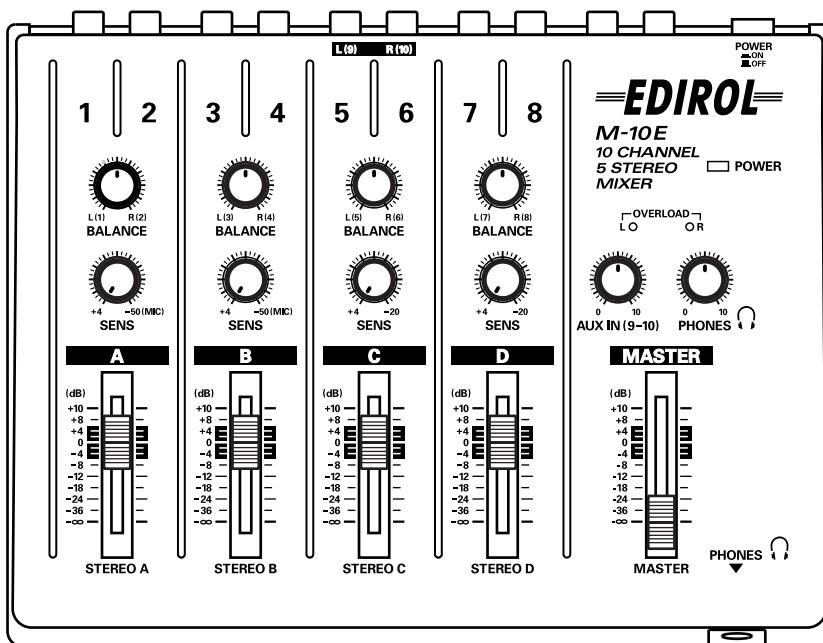
- \* Use a monaural mic, and connect the mic to channel 1 (MIC) or 3 (MIC).
- \* If you are using the M-10E as a sub-mixer for another mixer, connect the MASTER OUTPUT L, R jacks to the input jacks of the other mixer.
- \* "Desktop media production" (DTMP) is a new way of enjoying music and visual material using your computer. A "sound module" is an electronic sound generating device that you connect to your computer in order to enjoy DTMP.

# OPERATION

\* Once the connections have been completed (p. 16), turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

1. Switch off the M-10E and all the units to be connected.
2. Make all the necessary connections. Set the BALANCE knob of each channel to the center position and the SENS knob of each channel to the "+4" position. Set each Channel VOLUME slider to "0" (the marked position) and the MASTER Volume slider to the "-∞" position.

\* Always make sure to have the MASTER volume level turned down before switching on power. Even with the volume all the way down, you may still hear some sound when the power is switched on, but this is normal, and does not indicate a malfunction.

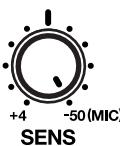
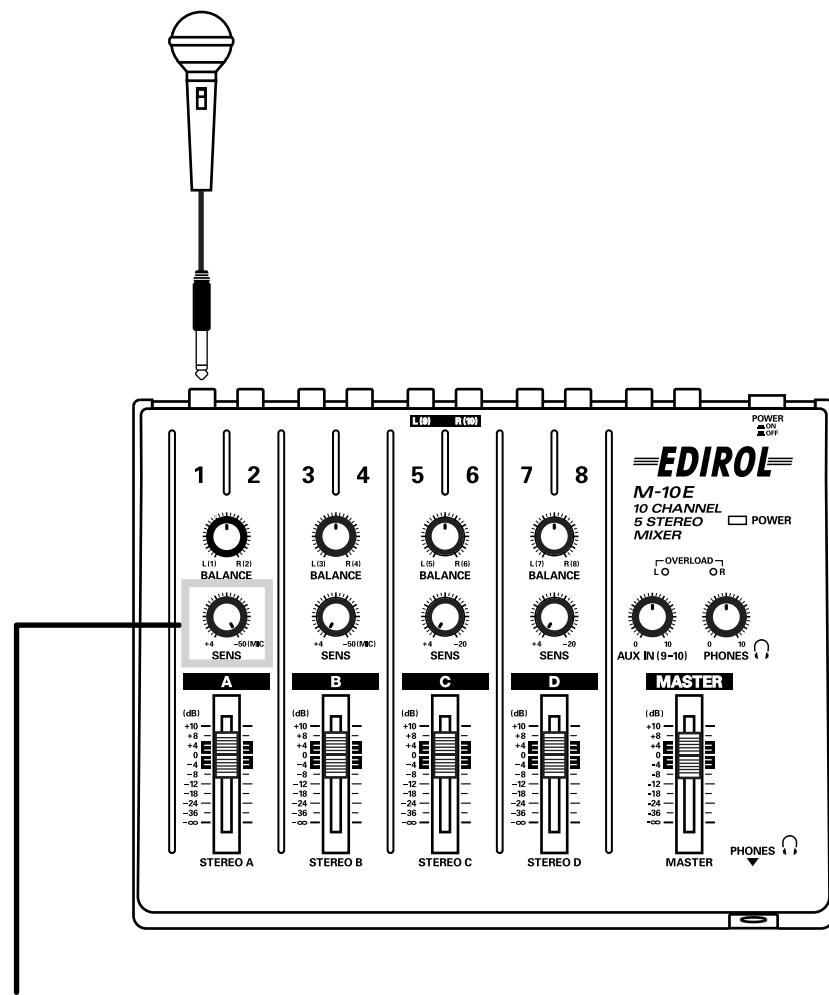


3. Switch on all the units connected to the M-10E.
4. Switch on the M-10E.

\* When operating on battery power only, the unit's indicator will become dim when battery power gets too low. Replace the battery as soon as possible.
5. Slowly raise the MASTER Volume slider to an appropriate level.

6. Use the SENS knobs to adjust input sensitivity for each channel.

\* For minimum noise and/or distortion, set the levels so the OVERLOAD indicators light only briefly on input peaks.



\* Use a monaural mic, and connect the mic to channel 1 (MIC) or 3 (MIC).

On the channel to which the mic is connected, turn the sensitivity knob all the way to the right.

7. Adjust the L/R input balance of each channel using the BALANCE knobs.

8. Adjust the channel levels relative to one another using the Channel VOLUME sliders.

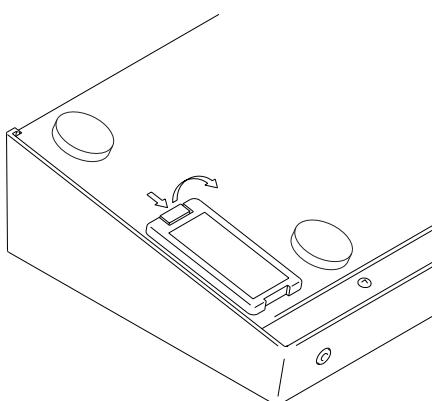
9. Set the overall output volume using the MASTER slider.

# BATTERY REPLACEMENT

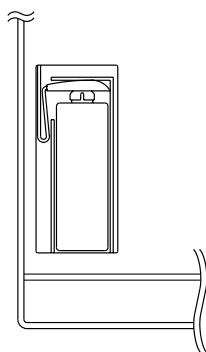
This mixer is designed to be used with the included AC adapter, but you can also operate it on battery power by installing a commercially available battery (6F22, S-006P/9V). Here's how to change the battery.

- \* *When turning the unit upside-down, get a bunch of newspapers or magazines, and place them under the four corners or at both ends to prevent damage to the buttons and controls. Also, you should try to orient the unit so no buttons or controls get damaged.*
- \* *When turning the unit upside-down, handle with care to avoid dropping it, or allowing it to fall or tip over.*

1. Remove the cover from the battery case located on the bottom of the unit.



2. Remove the old battery and replace it with new one.



3. Replace the cover.

If used improperly, batteries may explode or leak and cause damage or injury. In the interest of safety, please read and observe the following precautions.

- \* *Remove the batteries whenever the unit is to remain unused for an extended period of time.*
- \* *If a battery has leaked, use a soft piece of cloth or paper towel to wipe all remnants of the discharge from the battery compartment. Then install new batteries. To avoid inflammation of the skin, make sure that none of the battery discharge gets onto your hands or skin. Exercise the utmost caution so that none of the discharge gets near your eyes. Immediately rinse the affected area with running water if any of the discharge has entered the eyes.*
- \* *Never keep batteries together with metallic objects such as ballpoint pens, necklaces, hairpins, etc.*

# TROUBLESHOOTING

**Q:** The volume level of the instrument connected to INPUT, AUX IN, MASTER OUTPUT, and AUX OUT is too low.

**A:** Could you be using a connection cable that contains a resistor?  
Use a connection cable that does not contain a resistor.

# SPECIFICATIONS

## M-10E: 10 CHANNEL 5 STEREO MIXER

### Frequency Response

10 Hz to 50 kHz +1/-3 dB (at minimum gain)

### Nominal Input Level

INPUT (1 to 4)	-50 dBu to +4 dBu
INPUT (5 to 8)	-20 dBu to +4 dBu
AUX IN	-10 dBu

### Input Impedance

INPUT (1 to 4)	20 kΩ (Stereo)/10 kΩ (Mono)
INPUT (5 to 8)	20 kΩ (Stereo)
AUX IN	20 kΩ to 120 kΩ (Stereo)

### Nominal Output Level

OUTPUT	0 dBu
AUX OUT	-10 dBu

### Output Impedance

OUTPUT	1 kΩ
AUX OUT	1 kΩ

### Recommended Load Impedance

OUTPUT	10 kΩ or greater
AUX OUT	10 kΩ or greater
HEADPHONE	30 Ω or greater

### Headphones Output

0.1 mW (33 Ω load)

### Total Harmonic Distortion

0.05% or less  
(minimum gain, 10 Hz to 50 kHz at nominal output)

### Equivalent Input Noise

-107 dBu (input terminated with 150 Ω, IHF-A, Typ.)

### Controls

BALANCE Knob x 4  
SENS Knob x 4  
Channel Volume Slider x 4  
AUX IN Knob x 1  
Headphones Knob x 1  
Master Volume Slider x 1  
Power Switch

### Indicators

Power Indicator  
Overload Indicator (L/R)

### Connectors

<Front>  
Headphone Jack (Stereo mini type)  
<Rear>  
Input (L/R) x 4 (RCA phono type)  
Input (L(MONO)/R) x 2 (1/4-inch phone type)  
Output (L/R) x 1 (RCA phono type)  
Output (L/R) x 1 (1/4-inch phone type)  
AUX IN (L/R) x 1 (RCA phono type)  
AUX OUT (L/R) x 1 (RCA phono type)  
AC Adaptor Jack (DC 9V)

### Power Supply

DC 9V: Dry Battery  
(6F22, S-006P/9V Commercially available)  
AC Adaptor

### Current Draw

45 mA (at maximum)

\* *Expected battery life under continuous use:*  
Carbon: approx. 3 hours  
Alkaline: approx. 7 hours  
*(These figures will vary depending on the actual conditions of use.)*

### Dimensions

218 (W) x 170 (D) x 60 (H) mm  
8-5/8 (W) x 6-3/4 (D) x 2-3/8 (H) inches

### Weight

750 g (including battery)  
1 lb 11 oz

### Accessories

Owner's Manual  
AC Adaptor BOSS PSA Series

### Options

Dry Battery (6F22, S-006P/9V Commercially available)

\* 0 dBu = 0.775 Vrms

\* *In the interest of product development, the specifications and/or appearance of this unit are subject to change without prior notice.*



This product complies with the requirements of European Directive 89/336/EEC.

## Information

When you need repair service, call your nearest EDIROL/Roland Service Center or authorized EDIROL/Roland distributor in your country as shown below.

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